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NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
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NEWS 7 APR 28 CAS patent authority coverage expanded
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NEWS 9 APR 28 Limits doubled for structure searching in CAS
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NEWS 12 MAY 11 BEILSTEIN substance information now available on
STN Easy
NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
limits for exact sequence match searches and
introduction of free HIT display format
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
enhanced on STN
NEWS 17 JUN 26 NUTRACEUT and PHARMAML no longer updated
NEWS 18 JUN 29 IMSCOPROFILE now reloaded monthly
NEWS 19 JUN 29 EFFULL adds Simultaneous Left and Right Truncation
(SLART) to AB, MCLM, and TI fields
NEWS 20 JUL 09 PATDPAPULL adds Simultaneous Left and Right
Truncation (SLART) to AB, CLM, MCLM, and TI fields

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FILE 'HOME' ENTERED AT 15:44:49 ON 10 JUL 2009

-> file ca

COST IN U.S. DOLLARS

SINCE FILE

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FULL ESTIMATED COST

0.22

0.22

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FILE COVERS 1907 - 9 Jul 2009 VOL 151 ISS 3

FILE LAST UPDATED: 9 Jul 2009 (20090709/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

-> s us20060102876/pn

L1 1 US20060102876/PN

-> d all

L1 ANSWER 1 OF 1 CA COPYRIGHT 2009 ACS on STN

AN 140:165218 CA

ED Entered STN: 04 Mar 2004

TI Molecule alignment polymer gel and molecule alignment polymer cast film having self-organizing amphiphilic compound as template and process for producing the same

IN Kimizuka, Nobuo; Kagawa, Kazuhiro; Nakashima, Takuya

PA Honda Giken Kogyo Kabushiki Kaisha, Japan

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM C08F020-58

ICS C08F002-44; C08G061-12

CC 38-3 (Plastics Fabrication and Uses)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004014965	A1	20040219	WO 2003-JP10068	20030807
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003254862	A1	20040225	AU 2003-254862	20030807
	EP 1553109	A1	20050713	EP 2003-784575	20030807
	EP 1553109	B1	20071024		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 4257293	B2	20090422	JP 2004-527359	20030807
	US 20060102876	A1	20060518	US 2005-524079	20051031 <--
PRAI	JP 2002-231958	A	20020808		
	JP 2003-13943	A	20030122		
	WO 2003-JP10068	W	20030807		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO	2004014965	ICM ICS IPCI	C08F020-58 C08F002-44; C08G061-12 C08F0020-58 [ICM,7]; C08F0020-00 [ICM,7,C*]; C08G0002-44 [ICS,7]; C08G0061-12 [ICS,7]; C08G0061-00 [ICS,7,C*]
		IPCR	C08F0002-44 [I,C*]; C08F0002-44 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A]
		ECLA	C08G061/12
AU	2003254862	IPCI	C08F0020-58 [ICM,7]; C08F0020-00 [ICM,7,C*]; C08F0002-44 [ICS,7]; C08G0061-12 [ICS,7]; C08G0061-00 [ICS,7,C*]
		IPCR	C08F0002-44 [I,C*]; C08F0002-44 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A]
		ECLA	C08G061/12
EP	1553109	IPCI	C08F0020-00 [I,C]; C08F0020-58 [I,A]; C08F0002-44 [I,C]; C08F0002-44 [I,A]; C08G0061-00 [I,C]; C08G0061-12 [I,A]
		IPCR	C08F0002-44 [I,C*]; C08F0002-44 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A]
		ECLA	C08G061/12
JP	4257293	IPCI	C08G0061-12 [I,A]; C08G0061-00 [I,C*]; C08F0020-58 [I,A]; C08F0020-00 [I,C*]; C08F0002-44 [I,A]; C08J0005-18 [I,A]
US	20060102876	IPCI	C09K0019-52 [I,A]; C09K0019-58 [I,A]
		IPCR	C09K0019-52 [I,A]; C08F0002-44 [I,C*]; C08F0002-44 [I,A]; C08G0061-00 [I,C*]; C08G0061-12 [I,A]; C09K0019-52 [I,C]; C09K0019-58 [I,C]; C09K0019-58 [I,A]
		NCL	252/299.010; 252/299.200; 428/001.100
		ECLA	C08G061/12

AB The invention relates to a mol. alignment polymer gel and a mol. alignment polymer film produced by the self-organization of a self-organizing amphiphilic compound with a monomer interacting with this amphiphilic compound followed by the polymerization of the monomer; and a process for producing the same.

ST polymer gel film self mol alignment manuf amphiphilic compd; template self
 IT organizing amphiphilic compd monomer polymn polymer gel
 Films
 Gels
 (mol. alignment polymer gel and mol. alignment polymer cast film having
 self-organizing amphiphilic compound as template and process for
 producing the same)
 IT 35641-59-9P, 2-Acrylamido-2-methylpropanesulfonic acid sodium salt polymer
 114815-74-6P, 3-Thiopheneacetic acid polymer 126213-51-2P,
 3,4-Ethylenedioxythiophene polymer
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (film or gels; mol. alignment polymer gel and mol. alignment polymer
 cast film having self-organizing amphiphilic compound as template and
 process for producing the same)
 IT 656837-99-9 656838-00-5 656838-01-6
 RL: NUU (Other use, unclassified); USES (Uses)
 (template; mol. alignment polymer gel and mol. alignment polymer cast
 film having self-organizing amphiphilic compound as template and process
 for producing the same)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Honda Motor Co Ltd; JP 06-263874 A 1994 CA
 (2) Mitsubishi Heavy Industries Ltd; JP 02-308811 A 1990 CA
 (3) Shingijutsu Kaihatsu Jigyodan; JP 02-238029 A 1990 CA
 (4) Tokuyama Corp; JP 09-299868 A 1997 CA
 (5) Zaidan Hojin Kawamura Rikagaku Kenkyusho; JP 20025887 A 2002

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.29	6.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-0.78

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-> S 35641-59-9/RN

L2 1 35641-59-9/RN

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-> D L2 SQIDE 1-

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L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 35641-59-9 REGISTRY

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, sodium salt (1:1), homopolymer (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, homopolymer (9CI)

OTHER NAMES:

CN 2-Acrylamido-2-methylpropanesulfonic acid sodium salt homopolymer

CN 2-Acrylamido-2-methylpropanesulfonic acid sodium salt polymer

CN AMPS 2405 homopolymer

CN Cosmedia HSP 1180

CN Cosmedia Polymer HSP 1180

CN Lubrizol 2420

CN MP 6123

CN Poly(sodium 2-acrylamido-2-methylpropanesulfonate)

CN Poly(sodium 2-acrylamido-2-methyl-1-propanesulfonate)

CN Poly(sodium 2-acrylamido-2-methylpropanesulfonate)

CN Poly(sodium 2-acrylamido-2-methylpropylsulfonate)

CN Poly(sodium 2-acryloylamino-2-methylpropylsulfonate)

CN Sodium 2-acrylamido-2-methylpropanesulfonate homopolymer

CN Sodium 2-acrylamido-2-methylpropanesulfonate polymer

DR 113996-55-7, 152634-07-6

MF (C7 H13 N O4 S . Na)x

CI PMS, COM

PCT Polyacrylic

LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL

Other Sources: NDSL**, TSCA**

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DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

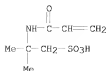
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)

CM 1

CRN 5165-97-9 (15214-89-8)

CMF C7 H13 N O4 S . Na



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

269 REFERENCES IN FILE CA (1907 TO DATE)
22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
269 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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-> S 5165-97-9/RN

L3 1 5165-97-9/RN

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-> D L3 SQIDE 1-

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L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 5165-97-9 REGISTRY

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, sodium salt (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanesulfonic acid, 2-acrylamido-2-methyl-, sodium salt (7CI, 8CI)

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt (9CI)

OTHER NAMES:

CN 2-Acrylamido-2-methylpropane-1-sulfonic acid sodium salt

CN 2-Acrylamido-2-methylpropanesulfonic acid sodium salt

CN AMPS 2403

CN AMPS 2405

CN ATBS-NA

CN Lubrizol 2401

CN Lubrizol 2403

CN Lubrizol 2405

CN Lubrizol 2405A

CN LZ 2405

CN Sodium 2-acrylamido-2-methyl-1-propanesulfonate

CN Sodium 2-acrylamido-2-methylpropanesulfonate

CN Sodium 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonate

DR 171063-24-4, 129701-88-8, 95243-13-3, 113996-54-6, 115137-50-3,

112666-19-0, 76701-57-0, 152634-06-5, 86848-82-0, 192388-82-2

MF C7 H13 N O4 S . Na

CI COM

LC STN Files: AGRICOLA, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL, USPATOLD

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Journal; Patent

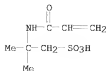
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT

(Reactant or reagent); USES (Uses)
CRN (15214-89-8)



● Na

303 REFERENCES IN FILE CA (1907 TO DATE)
120 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
303 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.49	13.01
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=> S 114815-74-6/RN

L4 1 114815-74-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L4 SQIDE 1-

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 114815-74-6 REGISTRY

CN 3-Thiopheneacetic acid, homopolymer (CA INDEX NAME)

OTHER NAMES:

CN 3-Thiopheneacetic acid polymer

CN Poly(3- α -carboxymethylthiophene)

CN Poly(3- α -carboxymethylthiophene)

CN Poly(3-thienylacetic acid)

CN Poly(3-thiophene acetic acid)

CN Poly(thiophene-3-acetic acid)

MF (C6 H6 O2 S)x

CI PMS, COM

PCT Polyether, Polyether only

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); NANO (Nanomaterial); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: PREP
(Preparation); PROC (Process); PRP (Properties)

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 6964-21-2

CMF C6 H6 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

137 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
137 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.49	16.50
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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=> S 126213-51-2/RN

L5 1 126213-51-2/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
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=> D L5 SQIDE 1-

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 126213-51-2 REGISTRY
CN Thieno[3,4-b]-1,4-dioxin, 2,3-dihydro-, homopolymer (CA INDEX NAME)
OTHER NAMES:
CN 2,3-Dihydrothieno[3,4-b]-1,4-dioxine homopolymer
CN 3,4-Ethylenedioxythiophene homopolymer
CN 3,4-Ethylenedioxythiophene polymer
CN Baytron CPUD 2
CN Baytron M
CN Baytron M-V 2
CN Denatron P 502S
CN EDOT homopolymer
CN Orgacon EL-P 3040
CN Ormecon D 1027B50
CN P 502S
CN PEDOT
CN PEDOT HT
CN Poly(3,4-ethylenedioxythiophene)
CN Poly(ethylenedioxythiophene)
DR 344920-32-7, 685136-64-5
MF (C6 H6 O2 S)x
CI PMS, COM
PCT Polyether, Polyether only
SR CA
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,
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DT.CA CAplus document type: Conference; Dissertation; Journal; Patent;
Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); NANO (Nanomaterial); PREP (Preparation); PROC
(Process); PRP (Properties); FRPH (Prophetic); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); NANO
(Nanomaterial); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); FORM (Formation, nonpreparative); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1
CRN 126213-50-1
CMF C6 H6 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7141 REFERENCES IN FILE CA (1907 TO DATE)
102 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7207 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	5.89	22.39
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.78

FILE 'REGISTRY' ENTERED AT 15:55:51 ON 10 JUL 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0
DICTIONARY FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 656837-99-9/RN

L6 1 656837-99-9/RN

=> SET NOTICE 1 DISPLAY

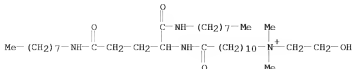
NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L6 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 656837-99-9 REGISTRY
CN 1-Undecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-11-[[4-(octylamino)-1-
[(octylamino)carbonyl]-4-oxobutyl]amino]-11-oxo- (CA INDEX NAME)
MF C36 H73 N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: USES (Uses)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

-> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.53	24.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.78

FILE 'REGISTRY' ENTERED AT 15:56:37 ON 10 JUL 2009
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0
DICTIONARY FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> S 656838-00-5/RN

L7 1 656838-00-5/RN

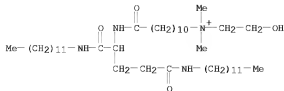
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L7 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 656838-00-5 REGISTRY
CN 1-Undecanamidium, 11-[[4-(dodecylamino)-1-[(dodecylamino)carbonyl]-4-oxobutyl]amino]-N-(2-hydroxyethyl)-N,N-dimethyl-11-oxo- (CA INDEX NAME)
MF C44 H89 N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.53	27.45
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE

0.00

-0.78

FILE 'REGISTRY' ENTERED AT 15:57:04 ON 10 JUL 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0
DICTIONARY FILE UPDATES: 9 JUL 2009 HIGHEST RN 1161815-06-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

-> S 656838-01-6/RN

L8 1 656838-01-6/RN

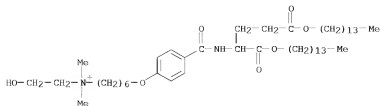
-> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

-> D L8 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.85 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 656838-01-6 REGISTRY
CN 1-Hexanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-6-[4-[[[4-oxo-4-
(tetradecyloxy)-1-[[tetradecyloxy]carbonyl]butyl]amino]carbonyl]phenoxy]-
(CA INDEX NAME)
MF C50 H91 N2 O7
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> s pyrrole
351449 PYRROLE
3 PYRROLES
L9 351449 PYRROLE
(PYRROLE OR PYRROLES)

=> e pyrrole/cn
E1 1 PYRROLAZOTE HYDROCHLORIDE/CN
E2 1 PYRROLCHOLINE/CN
E3 1 --> PYRROLE/CN
E4 1 PYRROLE ANION/CN
E5 1 PYRROLE BLACK/CN
E6 1 PYRROLE BLUE/CN
E7 1 PYRROLE COMPD. WITH PYRIDINE (1:1)/CN
E8 1 PYRROLE COMPOUND WITH IODIDE (1:1)/CN
E9 1 PYRROLE CONJUGATE ACID/CN
E10 1 PYRROLE DECAMER/CN
E11 1 PYRROLE DICATION/CN
E12 1 PYRROLE HEPTAMER/CN

=> s e3
L10 1 PYRROLE/CN

=> d l10

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 109-97-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrrole (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrrole (SCI)
OTHER NAMES:
CN 1-Aza-2,4-cyclopentadiene
CN Azole
CN Divinylenimine
CN Imidole
CN Monopyrrole
CN NSC 62777

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAPLUS now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
substance identification.

-> d his

(FILE 'HOME' ENTERED AT 15:44:49 ON 10 JUL 2009)

L1 FILE 'CA' ENTERED AT 15:45:20 ON 10 JUL 2009
1 S US20060102876/PN

L2 FILE 'REGISTRY' ENTERED AT 15:46:34 ON 10 JUL 2009
1 S 35641-59-9/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L3 FILE 'REGISTRY' ENTERED AT 15:47:53 ON 10 JUL 2009
1 S 5165-97-9/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L4 FILE 'REGISTRY' ENTERED AT 15:49:36 ON 10 JUL 2009
1 S 114815-74-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L5 FILE 'REGISTRY' ENTERED AT 15:51:14 ON 10 JUL 2009
1 S 126213-51-2/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L6 FILE 'REGISTRY' ENTERED AT 15:55:51 ON 10 JUL 2009
1 S 656837-99-9/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L7 FILE 'REGISTRY' ENTERED AT 15:56:37 ON 10 JUL 2009
1 S 656838-00-5/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L8 FILE 'REGISTRY' ENTERED AT 15:57:04 ON 10 JUL 2009
1 S 656838-01-6/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

L9 351449 S PYRROLE
E PYRROLE/CN
L10 1 S E3
E POLYPYRROLE/CN
L11 1 S E3

L12 FILE 'REGISTRY' ENTERED AT 16:04:50 ON 10 JUL 2009
1 S 1018967-40-2/RN

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SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY
STRUCTURE UPLOADED
L13
L14
L15      0 S L13 SSS SAM
L16      0 S L13 SSS FULL
L17      STRUCTURE UPLOADED
L18      4 S L17 SSS SAM
L19      27 S L17 SSS FULL
L20      STRUCTURE UPLOADED
L21      147 S L20 SSS FULL

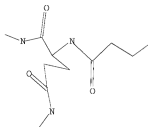
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FILE 'CAPLUS' ENTERED AT 16:20:47 ON 10 JUL 2009

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-> d 117
L17 HAS NO ANSWERS
L17      STR

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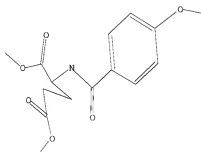


Structure attributes must be viewed using STN Express query preparation.

```

-> d 120
L20 HAS NO ANSWERS
L20      STR

```



Structure attributes must be viewed using STN Express query preparation.

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-> s 12 or 13 or 14 or 15 or 15214-89-8/rn or 6964-21-2/rn or 126213-50-1/rn or
109-97-7/rn or 30604-81-0/rn

```

```

269 L2
303 L3
137 L4
7207 L5
1463 15214-89-8
636 15214-89-8D
853 15214-89-8/RN
    (15214-89-8 (NOTL) 15214-89-8D )
416 6964-21-2
16 6964-21-2D
401 6964-21-2/RN
    (6964-21-2 (NOTL) 6964-21-2D )
607 126213-50-1
50 126213-50-1D
562 126213-50-1/RN
    (126213-50-1 (NOTL) 126213-50-1D )
12997 109-97-7
1676 109-97-7D
11455 109-97-7/RN
    (109-97-7 (NOTL) 109-97-7D )
12487 30604-81-0
495 30604-81-0D
12118 30604-81-0/RN
    (30604-81-0 (NOTL) 30604-81-0D )
L22 30662 L2 OR L3 OR L4 OR L5 OR 15214-89-8/RN OR 6964-21-2/RN OR 126213-
    50-1/RN OR 109-97-7/RN OR 30604-81-0/RN

```

-> s l17 or l20

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
 Use DISPLAY HITSTR (or PHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 16:25:08 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS 4 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 200 TO 800
 PROJECTED ANSWERS: 4 TO 200

L23 4 SEA SSS SAM L17

L24 3 L23

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
 Use DISPLAY HITSTR (or PHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 16:25:09 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS 8 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 44 TO 476
 PROJECTED ANSWERS: 8 TO 329

L25 8 SEA SSS SAM L20

L26 12 L25

L27 15 L24 OR L26

-> s 122 and 127

L28 1 L22 AND L27

-> d 128

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:143197 CAPLUS

DN 140:165218

TI Molecule alignment polymer gel and molecule alignment polymer cast film
 having self-organizing amphiphilic compound as template and process for
 producing the same

IN Kimizuka, Nobuo; Kagawa, Kazuhiro; Nakashima, Takuya

PA Honda Giken Kogyo Kabushiki Kaisha, Japan

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004014965	A1	20040219	WO 2003-JP10068	20030807
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003254862	A1	20040225	AU 2003-254862	20030807
EP 1553109	A1	20050713	EP 2003-784575	20030807
EP 1553109	B1	20071024		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 4257293	B2	20090422	JP 2004-527359	20030807
US 20060102876	A1	20060518	US 2005-524079	20051031
PRAI JP 2002-231958	A	20020808		
JP 2003-13943	A	20030122		
WO 2003-JP10068	W	20030807		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

-> d 127 1-5

L27 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:280690 CAPLUS
 DN 146:317787
 TI Self-assembling inorganic nanoparticle-organic compound composites, cured resins containing them, and their manufacture
 IN Narikiyo, Yoshitaka; Ogami, Shinya; Kimizuka, Nobuo
 PA Kyoritsu Chemical Industry Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 20pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007063232	A	20070315	JP 2005-254647	20050902
PRAI	JP 2005-254647		20050902		
OS	MARPAT 146:317787				

L27 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:143197 CAPLUS
 DN 140:165218
 TI Molecule alignment polymer gel and molecule alignment polymer cast film having self-organizing amphiphilic compound as template and process for producing the same
 IN Kimizuka, Nobuo; Kagawa, Kazuhiro; Nakashima, Takuya
 PA Honda Giken Kogyo Kabushiki Kaisha, Japan
 SO PCT Int. Appl., 33 pp.
 CODEN: PIXXD2

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004014965	A1	20040219	WO 2003-JP10068	20030807
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003254862	A1	20040225	AU 2003-254862	20030807
	EP 1553109	A1	20050713	EP 2003-784575	20030807
	EP 1553109	B1	20071024		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 4257293	B2	20090422	JP 2004-527359	20030807
	US 20060102876	A1	20060518	US 2005-524079	20051031
PRAI	JP 2002-231958	A	20020808		
	JP 2003-13943	A	20030122		
	WO 2003-JP10068	W	20030807		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:658880 CAPLUS
 DN 138:73478
 TI Light-harvesting supramolecular hydrogels assembled from short-legged
 cationic L-glutamate derivatives and anionic fluorophores
 AU Nakashima, Takuya; Kimizuka, Nobuo
 CS Department of Chemistry and Biochemistry, Graduate School of Engineering,
 Kyushu University, Fukuoka, 812-8581, Japan
 SO Advanced Materials (Weinheim, Germany) (2002), 14(16), 1113-1116
 CODEN: ADVMEW; ISSN: 0935-9648
 PB Wiley-VCH Verlag GmbH
 DT Journal
 LA English
 OS CASREACT 138:73478
 RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:652816 CAPLUS
 DN 117:252816
 OREF 117:43759a,43762a
 TI Chlorine-sensitive quaternary ammonium compound copolymer membrane and its
 manufacture
 IN Yanagi, Hiroyuki; Watanabe, Shin
 PA Tokuyama Soda Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04001239	A	19920106	JP 1990-100239	19900418
	JP 07103252	B	19951108		
PRAI	JP 1990-100239		19900418		

L27 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:145036 CAPLUS
 DN 116:145036
 OREF 116:24345a,24348a
 TI Correlation between physicochemical characteristics of synthetic cationic
 amphiphiles and their DNA transfection ability
 AU Akao, Tetsuyuki; Osaki, Tetsuro; Mitoma, Junya; Ito, Akio; Kunitake,
 Toyoki
 CS Chem. Text. Ind. Res. Inst., Fukuoka Ind. Technol. Cent., Chikushino, 818,
 Japan
 SO Bulletin of the Chemical Society of Japan (1991), 64(12), 3677-81
 CODEN: BCSJAB; ISSN: 0009-2673
 DT Journal
 LA English

-> d 127 6-15 ibib abs hitstr

L27 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1992:61159 CAPLUS
 DOCUMENT NUMBER: 116:61159
 ORIGINAL REFERENCE NO.: 116:10566h,10567a
 TITLE: Manufacture of thin film laminates
 INVENTOR(S): Ueno, Tetsuo; Kamiyama, Katsuhisa; Kunitake, Toyoki
 PATENT ASSIGNEE(S): Research Development Corp. of Japan, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

DOCUMENT TYPE: CODEN: JKXXAF
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 Japanese
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03168223	A	19910722	JP 1989-309925	19891129
JP 2845330	B2	19990113		

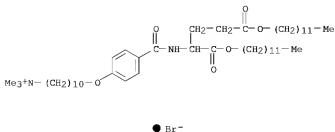
PRIORITY APPLN. INFO.: JP 1989-309925 19891129

AB The title laminates are manufactured by dispersing bimol. film-forming lipids, reactive group-containing water-soluble polymers, and optionally crosslinking agents in water, spreading the dispersions on a substrate, removing the solvents by evaporation, and extraction of the lipids. Crosslinking group-containing water-soluble polymers may be used instead of reactive group-containing water-soluble polymers and crosslinking agents. Thus, an aqueous dispersion containing Me(CH₂)₁₅OCOC[CH(CH₂)₂CO₂(CH₂)₁₅Me]NHCO(CH₂)₁₀N+Me³ Br⁻ 13.5, poly(allylamine) 0.43, and glutaraldehyde 0.38 g/L was cast on a glass plate to form a 3-mm liquid film, dried at 25° and 60% relative humidity for removal of water, and immersed in MeOH for extraction of the lipid to form a multilayer film.

IT 82135-69-1
 RL: USES (Uses)
 (in thin film laminate manufacture)

RN 82135-69-1 CAPLUS

CN 1-Decanaminium, 10-[4-[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



L27 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1991:193378 CAPLUS

DOCUMENT NUMBER: 114:193378

ORIGINAL REFERENCE NO.: 114:32476a

TITLE: Aromatic acid amine salt multilayer film with structural periodicity

INVENTOR(S): Takeya, Yutaka; Matsuzawa, Hiroshi; Iwata, Kaoru

PATENT ASSIGNEE(S): Teijin Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02193954	A	19900731	JP 1989-11861	19890123

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 114:193378

AB The multilayer film, with periodical structure in the thickness orientation, comprises C10-22 linear alkylamine salt of aromatic conjugated acid R(CH:CH)1CH:C(CN)CO2H [1 = 0,1,2; R = (substituted) aromatic residue]. Me cyanate and p-dimethylaminocinnamoyl aldehyde were treated to give 5-(4-dimethylaminophenyl)-2-cyano-2,4-pentadienoic acid (I). The solution of I and a solution of C18H37COCHNHCOC6H4C18H37CO(CH2)20(CH2)4NMe3Br were repeatedly contacted to give the multilayer film useful for elec. materials, waveguides, optoelec. devices, etc.

IT 133398-00-2
RL: PRP (Properties)
(multilayer film from, with periodic structure in thickness orientation)

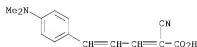
RN 133398-00-2 CAPLUS

CN 1-Butanaminium, N,N,N-trimethyl-4-[4-[[[4-(octadecyloxy)-1-[(octadecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-, bromide, (S)-, 2-cyano-5-[4-(dimethylamino)phenyl]-2,4-pentadienoate (9CI) (CA INDEX NAME)

CM 1

CRN 126057-95-2

CMF C14 H14 N2 O2

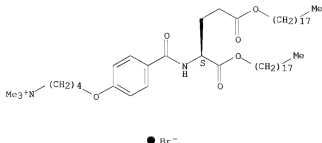


CM 2

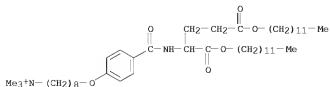
CRN 107086-85-1

CMF C55 H101 N2 O6 . Br

Absolute stereochemistry.



ACCESSION NUMBER: 1991:179693 CAPLUS
 DOCUMENT NUMBER: 114:179693
 ORIGINAL REFERENCE NO.: 114:30191a,30194a
 TITLE: The effect of physicochemical characteristics of synthetic cationic amphiphiles on DNA transfection
 AUTHOR(S): Akao, Tetsuyuki; Osaki, Tetsurou; Mitoma, Junya; Ito, Akio; Kunitake, Toyoki
 CORPORATE SOURCE: Fukuoka Ind. Technol. Cent., Chem. Text. Ind. Res. Inst., Chikushino, 818, Japan
 SOURCE: Chemistry Letters (1991), (2), 311-14
 CODEN: CMLTAG; ISSN: 0366-7022
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Bilayer membranes of double-chain ammonium amphiphiles were utilized for DNA transfection into eukaryotic cells. The efficiency of the DNA transfection was much higher when fluid, vesicular bilayers were used than when rigid, helical bilayers were used.
 IT 133359-21-4
 RL: PRP (Properties)
 (bilayers, properties of, DNA transfection dependent on)
 RN 133359-21-4 CAPLUS
 CN 1-Octanaminium, 8-[4-[[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

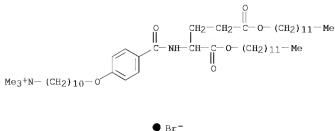
L27 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1988:28831 CAPLUS
 DOCUMENT NUMBER: 108:28831
 ORIGINAL REFERENCE NO.: 108:4731a,4734a
 TITLE: Fluorescence behavior and energy transfer of cyanine dyes bound to bilayer membranes of double chain ammonium amphiphiles
 AUTHOR(S): Nakashima, Naotoshi; Ando, Reiko; Kunitake, Toyoki
 CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, 812, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1987), 60(6), 1967-73
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Neg.-charged cyanine dyes are bound specifically to aqueous bilayer membranes of double-chain ammonium amphiphiles, as reflected in their absorption spectra. The quantum yield of the fluorescence emission of a trimethine-thiacyanine dye is enhanced (≈ 0.64) when the dye is bound to crystalline bilayer membranes of certain double-chain ammonium amphiphiles. The fluorescence intensity diminished with the liquid crystalline

bilayers. Efficient energy transfer is noted from an oxyacyanine to the thiacyanine dye in the crystalline membrane matrix. The efficiency decreases by the membrane phase transition to the liquid crystalline state. These results are discussed in terms of specific dye binding and concentration of dyes at the membrane surface.

IT 82135-69-1
 RL: PRP (Properties)
 (fluorescence and energy transfer of cyanine dyes bound to bilayer membranes of)

RN 82135-69-1 CAPLUS

CN 1-Decanaminium, 10-[4-[[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



L27 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1987:534888 CAPLUS

DOCUMENT NUMBER: 107:134888

ORIGINAL REFERENCE NO.: 107:21809a,21812a

TITLE: Liquid crystal compositions

INVENTOR(S): Yanagi, Hiroyuki; Horimoto, Hikari; Ogata, Takayuki

PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62030154	A	19870209	JP 1985-168606	19850801
JP 02038136	B	19900829		

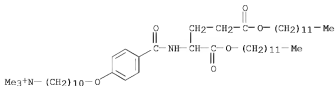
PRIORITY APPLN. INFO.: JP 1985-168606 19850801

AB Title comps., having similar functions as vital membranes and high crystalline orientation and are useful in preparing display devices, various sensors, testing materials for vital membrane studies, etc., contain polymers prepared from an ionic group-containing polymer and an organic compound containing

≥1 straight chain hydrophobic group containing a rigid part in the chain and an ionic group by heating in presence of water. Thus, 50 mmol dimethyldistearylammonium bromide in 500 cm³ water was mixed with 50 mmol poly(Na styrenesulfonate) (viscosity-average-mol. weight 6 × 10⁶) in 500 cm³ water to give a precipitate, washed with MeOH, and heated 20 min in 70° water to give a compound having crystal-liquid crystal transition

temperature 31° and high liquid crystal orientation.

IT 82135-69-1D, reaction products with ionic group-containing polymer
RL: USES (Uses)
(liquid crystals, for display devices and vital membrane studies)
RN 82135-69-1 CAPLUS
CN 1-Decanaminium, 10-[4-[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

L27 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1987:108337 CAPLUS

DOCUMENT NUMBER: 106:108337

ORIGINAL REFERENCE NO.: 106:17651a

TITLE: DSC studies of the phase transition behavior of synthetic bilayer membranes. Part I. Bilayer membranes of double-chain amphiphiles

AUTHOR(S): Kunitake, Toyoki; Ando, Reiko; Ishikawa, Yuichi

CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Memoirs of the Faculty of Engineering, Kyushu

University (1943-1999) (1986), 46(2), 221-43

CODEN: MEKSAS; ISSN: 0023-6160

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The gel-to-liquid crystal phase transition of bilayer membranes of synthetic double-chain amphiphiles was systematically examined by differential scanning calorimetry (DSC). A large amount of the DSC data - phase transition temperature (T_c), enthalpy change (ΔH) and entropy change (ΔS) - collected mostly in these labs. were correlated with the structural element of the component amphiphiles. These amphiphiles are composed of alkyl tails, connectors, spacers, and hydrophilic heads. The T_c value is raised with increasing lengths of tails and spacers, and when hydrocarbon tails are replaced with perfluorocarbon tails. Hydrogen bonding connectors as well as the aromatic unit in the spacer portion stabilize the gel state of bilayers. The influence of the head group structure is variable. Finally, the ΔS values are shown to be in the range of 60-220 J/K.mol for bilayer-forming amphiphiles, indicating that their phase transition processes are essentially identical.

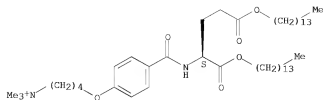
IT 107086-89-5

RL: PEP (Physical, engineering or chemical process); PROC (Process)
(phase transition of bilayer membranes of)

RN 107086-89-5 CAPLUS

CN 1-Butanaminium, N,N,N-trimethyl-4-[4-[[4-oxo-4-(tetradecyloxy)-1-[(tetradecyloxy)carbonyl]butyl]amino]carbonyl]phenoxy]-, bromide, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Br⁻

L27 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:535796 CAPLUS

DOCUMENT NUMBER: 105:135796

ORIGINAL REFERENCE NO.: 105:21907a, 21910a

TITLE: Liquid crystalline compositions

INVENTOR(S): Ogata, Takayuki; Yanagi, Hiroyuki; Horimoto, Hikari

PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61060734	A	19860328	JP 1984-181680	19840831
JP 04056855	B	19920909		

PRIORITY APPLN. INFO.: JP 1984-181680 19840831

AB The title comps., having improved stability and useful as biomembranes, comprise cellulose ethers and organic compds. containing quaternary ammonium groups and ≥ 2 linear hydrophobic groups or ≥ 1 linear hydrophobic group containing rigid chain segments. Thus, an aqueous salt solution of

(C18H37)2N+Me2Br- and an aqueous solution of Nisso HPC-M (hydroxypropyl cellulose) were mixed, spread, and dried at 20° and normal pressure to give a 50- μ thick transparent liquid crystal film.

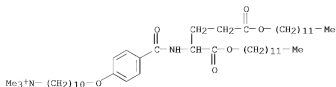
IT 82135-69-1

RL: USES (Uses)

(liquid crystals containing, for biol. membranes)

RN 82135-69-1 CAPLUS

CN 1-Decanaminium, 10-[4-[[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



L27 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:217045 CAPLUS

DOCUMENT NUMBER: 104:217045

ORIGINAL REFERENCE NO.: 104:34247a, 34250a

TITLE: Liquid crystal compositions

INVENTOR(S): Kunitake, Toyoki; Tsuge, Akihiko; Horimoto, Hikari; Ogata, Takayuki

PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60228564	A	19851113	JP 1984-83629	19840427
JP 61040709	B	19860910		

PRIORITY APPLN. INFO.: JP 1984-83629 19840427

AB Liquid crystal comps. comprise an ionic group-containing polymer and an organic

compound having ionic groups and 2 or 3 linear hydrophobic groups (LHG) or a LHG-containing rigid chain. Thus, a solution of 50 mmol (C₁₈H₃₇)₂Me₂N⁺ Br⁻ in 500 mL H₂O was mixed with a solution of 50 mmol Na polystyrenesulfonate in 500 mL H₂O and worked up to give 30 g white solid soluble in benzene and CHCl₃, which showed an anisotropic phase when viewed between crossed polarizers, and when heated underwent a crystalline/liquid-crystalline transition at 38°, but were isotropic at 160°.

IT 102325-94-CP

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (liquid crystal comps., manufacture of)

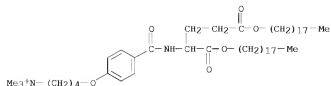
RN 102325-94-C CAPLUS

CN Cellulose, carboxymethyl ether, ion (neg.), N,N,N-trimethyl-4-[[4-[[4-(octadecyloxy)-1-[(octadecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-1-butanaminium (9CI) (CA INDEX NAME)

CM 1

CRN 102325-93-9

CMF C55 H101 N2 O6



CM 2

CRN 39448-91-4

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L27 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1983:619229 CAPLUS

DOCUMENT NUMBER: 99:219229

ORIGINAL REFERENCE NO.: 99:33637a,33640a

TITLE: Casting of synthetic bilayer membranes on glass and spectral variation of membrane-bound cyanine and merocyanine dyes

AUTHOR(S): Nakashima, Naotoshi; Ando, Reiko; Kunitake, Toyoki

CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Chemistry Letters (1983), (10), 1577-80

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cast films were prepared on glass from aqueous dispersions of double-chain ammonium amphiphiles. The bilayer characteristics were preserved and specific spectral variations were observed for film-bound cyanine and merocyanine dyes.

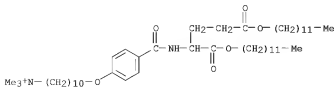
IT 82135-69-1

RL: PRP (Properties)

(membranes, spectral variation of cyanine dyes bound to bilayer)

RN 82135-69-1 CAPLUS

CN 1-Decanaminium, 10-[4-[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

L27 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1982:440298 CAPLUS

DOCUMENT NUMBER: 97:40298

ORIGINAL REFERENCE NO.: 97:6897a,6900a

TITLE: Drastic fluorescence enhancement of cyanine dyes bound to synthetic bilayer membranes. Its high sensitivity to the chemical structure and the physical state of the membrane

AUTHOR(S): Nakashima, N.; Kunitake, T.

CORPORATE SOURCE: Fac. Eng., Kyushu Univ., Fukuoka, 812, Japan

SOURCE: Journal of the American Chemical Society (1982),

104(15), 4261-2

CODEN: JACSAY; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Anionic cyanine dyes bound to ammonium bilayer membrane show fluorescence enhancement which is much larger than observed in the conventional aqueous micelle. The enhancement diminishes drastically upon phase transition of the matrix membrane from the crystal to the liquid crystal states. The chemical structure of the membrane component is also crucial for the enhancement. Apparently the large enhancement is derived from specific orientation of the dyes at the rigid membrane surface. Similar results are reported for cationic cyanine dyes bound to anionic bilayer membranes.

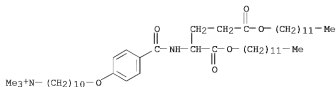
IT 82135-69-1

RL: USES (Uses)

(bilayer membranes, cyanine dyes bound to, fluorescence in relation to)

RN 82135-69-1 CAPLUS

CN 1-Decanammonium, 10-[4-[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

-> d 127 1-5 ibib abs hitstr

L27 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:280690 CAPLUS

DOCUMENT NUMBER: 146:317787

TITLE: Self-assembling inorganic nanoparticle-organic compound composites, cured resins containing them, and their manufacture

INVENTOR(S): Narikiyo, Yoshitaka; Ogami, Shinya; Kimizuka, Nobuo

PATENT ASSIGNEE(S): Kyoritsu Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007063232	A	20070315	JP 2005-254647	20050902
PRIORITY APPLN. INFO.:			JP 2005-254647	20050902

OTHER SOURCE(S): MARPAT 146:317787

AB The invention relates to composites comprising inorg. nanoparticles and self-assembling organic compds. Thus, mixing a toluene solution of N-(11-dimethylhydroxyethylammonio)undecanoyl-L-glutamic acid dihexadecyldiamide with an aqueous solution of HAuCl₄, heating at 120°, and reducing the metal salt gave a toluene solution of composite Au nanoparticles showing nanowire structure and reversible sol-gel transformation.

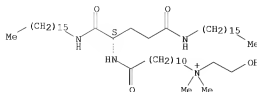
IT 763925-94-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (self-assembling inorg. nanoparticle-organic compound composites)

RN 763925-94-6 CAPLUS

CN 1-Undecanaminium, 11-[[[(1S)-4-(hexadecylamino)-1-
 [(hexadecylamino)carbonyl]-4-oxobutyl]amino]-N-(2-hydroxyethyl)-N,N-
 dimethyl-11-oxo- (CA INDEX NAME)

Absolute stereochemistry.



L27 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:143197 CAPLUS

DOCUMENT NUMBER: 140:165218

TITLE: Molecule alignment polymer gel and molecule alignment polymer cast film having self-organizing amphiphilic compound as template and process for producing the same

INVENTOR(S): Kimizuka, Nobuo; Kagawa, Kazuhiro; Nakashima, Takuya

PATENT ASSIGNEE(S): Honda Giken Kogyo Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014965	A1	20040219	WO 2003-JP10068	20030807
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,				

TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2003254862 A1 20040225 AU 2003-254862 20030807
 EP 1553109 A1 20050713 EP 2003-784575 20030807
 EP 1553109 B1 20071024
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 4257293 B2 20090422 JP 2004-527359 20030807
 US 20060102076 A1 20060518 US 2005-524079 20051031
 PRIORITY APPLN. INFO.: JP 2002-231958 A 20020808
 JP 2003-13943 A 20030122
 WO 2003-JP10068 W 20030807

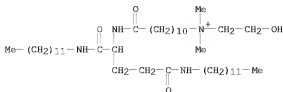
AB The invention relates to a mol. alignment polymer gel and a mol. alignment
 polymer film produced by the self-organization of a self-organizing
 amphiphilic compound with a monomer interacting with this amphiphilic compound
 followed by the polymerization of the monomer; and a process for producing the
 same.

IT 656838-00-5

RL: NUU (Other use, unclassified); USES (Uses)
 (template; mol. alignment polymer gel and mol. alignment polymer cast
 film having self-organizing amphiphilic compound as template and process
 for producing the same)

RN 656838-00-5 CAPLUS

CN 1-Undecanaminium, 11-[[4-(dodecylamino)-1-[(dodecylamino)carbonyl]-4-
 oxobutyl]amino]-N-(2-hydroxyethyl)-N,N-dimethyl-11-oxo- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:658880 CAPLUS

DOCUMENT NUMBER: 138:73478

TITLE: Light-harvesting supramolecular hydrogels assembled
 from short-legged cationic L-glutamate derivatives and
 anionic fluorophores

AUTHOR(S): Nakashima, Takuya; Kimizuka, Nobuo

CORPORATE SOURCE: Department of Chemistry and Biochemistry, Graduate
 School of Engineering, Kyushu University, Fukuoka,
 812-8581, Japan

SOURCE: Advanced Materials (Weinheim, Germany) (2002), 14(16),
 1113-1116

CODEN: ADVMEW; ISSN: 0935-9648

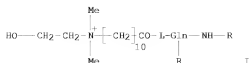
PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:73478

GI



AB Cationic L-glutamate derivs. [I; R = (CH₂)₇, CH(CH₃)₂] were prepared from I [R = (CH₂)₁₁CH₃] for use as self-assembling receptors of fluorescent compds. 2-naphthalene sulfonate or 9,10-dimethoxy-2-anthracene sulfonate. Aqueous dispersions of I were prepared by ultrasonification, and found to show self-assembly behavior. Addition of fluorescent agents to I (R = (CH₂)₇, CH(CH₃)₂) gave hydrogels whose fluorescent properties were investigated as light-harvesting supramol. networks.

IT 479671-17-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and fluorescent behavior of as light-harvesting supramol. hydrogels)

RN 479671-17-5 CAPLUS

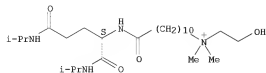
CN 1-Undecanaminium, N-(2-hydroxyethyl)-N,N-dimethyl-11-[[[(1S)-4-[(1-methylethyl)amino]-1-[[[(1-methylethyl)amino]carbonyl]-4-oxobutyl]amino]-11-oxo-, salt with 9,10-dimethoxy-2-anthracenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 479671-16-4

CMF C26 H53 N4 O4

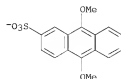
Absolute stereochemistry.



CM 2

CRN 137308-85-1

CMF C16 H13 O5 S



REFERENCE COUNT:

31

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 1992:652816 CAPLUS

DOCUMENT NUMBER: 117:252816

ORIGINAL REFERENCE NO.: 117:43759a,43762a

TITLE: Chlorine-sensitive quaternary ammonium compound copolymer membrane and its manufacture

INVENTOR(S): Yanagi, Hiroyuki; Watanabe, Shin

PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

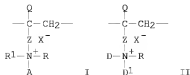
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04001239	A	19920106	JP 1990-100239	19900418
JP 07103252	B	19951108		

PRIORITY APPLN. INFO.: JP 1990-100239 19900418

GI



AB Title membrane, with high selectivity for Cl⁻ and useful in clin. anal., contain I [Q = H, alkyl, cyano; X⁻ = halo; Z = Ph(CH₂)_n, (CH₂)_n (n = 1-10), PhOR₂, PhCH₂OR₂, PhCH₂OCOR₂, PhCO₂R₂, PhCONHR₂, PhNHCOR₂, COOR₂, OCOR₂, CONHR₂, and NHCOR₂; R₂ = (CH₂)_m, CH₂(CH₂OCH₂)_mCH₂, CH₂(CHMeOCH₂)_mCHMe (m = 1-10); R, R₁ = C < 5 alkyl, halogenated alkyl, hydroxyalkyl, benzyl; A = 2 or 3 long-chain hydrophobic groups, nonionic monovalent linear hydrophobic group having a rigid in its chain) or II (D, D₁ = nonionic monovalent hydrophobic moiety) and C < 5 acrylamide derivative, and optionally 10-200 wt% (based on the polymer) C > 10 straight-chain alcs. A membrane, prepared by copolymerg. a mixture of 5 mmol [CH₃(CH₂)₁₇]2N+MeCH₂-p-C₆H₄CH:CH₂.Cl⁻ and 7.5 mmol N-methylolacrylamide in EtOH-benzene mixture containing AIBN at 50° for 48 h, casting (after precipitating and dissolving in CHCl₃), and heat-treating in 1 M NaCl and then

1.3 M HCl aqueous solution had relative selectivity (vs. Cl⁻) for SO₄ 0.004, HPO₄ 0.005, MeCO₂ 0.021, and HCO₃ 0.11.

IT 141647-46-3

RL: TEM (Technical or engineered material use); USES (Uses) (chloride-selective membranes)

RN 141647-46-3 CAPLUS

CN 2-Propen-1-aminium, N-[2-[4-[[[4-(hexadecyloxy)-1-[(hexadecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]ethyl]-N,N-dimethyl-, chloride, polymer with N-(hydroxymethyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 141608-85-7

amphiphiles in the transfection was examined by the transient expression of β -galactosidase from its cDNA in COS cells. Amphiphiles with a phase-transition temperature (T_c) lower than 37° , as measured by differential scanning calorimetry, could introduce DNA into the cells. Electron microscopic observation indicated that amphiphiles possessing DNA transfection ability form vesicular structures in aqueous solution. Thus, fluid and vesicular bilayer structures were much higher than rigid and helical bilayer structures regarding the effectiveness of amphiphiles in DNA transfection. The efficiency of didodecyl N-[p-(2-trimethylammonioethoxy)benzoyl]-L-glutamate bromide was the highest of all the synthetic amphiphiles examined

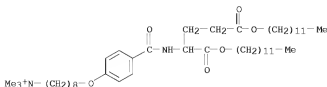
IT 133359-21-4P

RL: PREP (Preparation)

(preparation and genetic transformation using and physicochem. properties of)

RN 133359-21-4 CAPLUS

CN 1-Octanaminium, 8-[4-[[[4-(dodecyloxy)-1-[(dodecyloxy)carbonyl]-4-oxobutyl]amino]carbonyl]phenoxy]-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



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LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 16:34:16 ON 10 JUL 2009